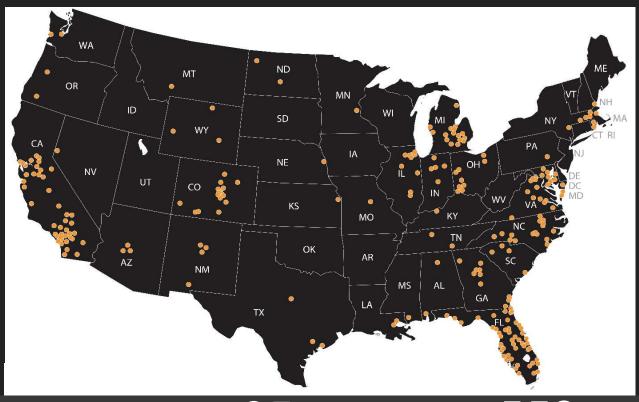


National and Local Experience of Stantec's Financial Services Team

30+

Communities served by Stantec Financial Services in California



>360

Communities served, accounting for 25+% of the US population!

400+
Combined years of experience

1.5K+
Studies in the last
10 years

35+
Specialists in utility financial management

>550
Utilities in our benchmarking database

\$4B+

Debt supported in past five years

Our Role as Independent Reviewers

- Independent review of rate proposals
 - Accuracy
 - Compliance with industry practices
 - Requirements of Proposition 218
- Consider strategies used in other communities
- Analysis in response to IBA, IROC, or Council
- Input and solutions from other rate studies
- Provide understanding of proposed changes
- Serve as resource for questions





Andrew Burnham Project Director 20 Years Experience



Benjamin Stewart Project Manager 10 Years Experience



William Zieburtz & Carol Malesky **Expert Panelists 50+ Years Combined Experience**



Lead Consultant 9 Years Experience



Industry Overview





Water prices pay for treating, pumping, and delivering water, while sewer prices cover the cost of cleansing the water that goes down the drain.

Sewer prices are often higher than water prices because more energy and chemicals are required for treatment. Following the Clean Water Act, the federal government gave grants for new treatment plants during the 1970s and 1980s. Over the past three decades, however, new spending has been cut for local sewer infrastructure.

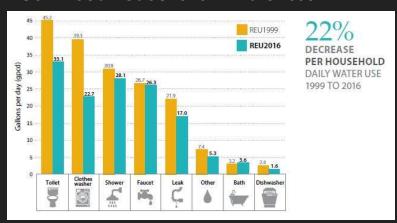
Stormwater fees are not included in every city's monthly bill. Some cities use general tax revenues to pay for projects to reduce polluted runoff from streets and parking lots. However, these projects must then compete for funds with other departments like police and schools.





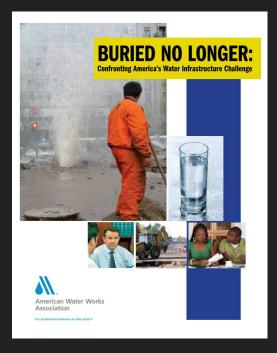
The common drivers of rate increases

Continued Reductions in Water Use



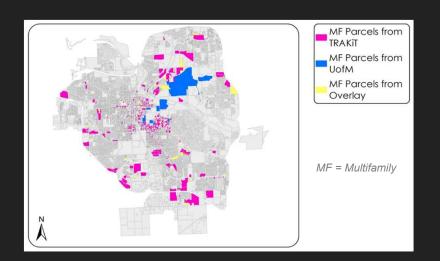
Affordability Concerns Water & Sewer bills have increased at 3x the rate of inflation since 2008 ■ Water/Sewer Bills ■ Income Growth

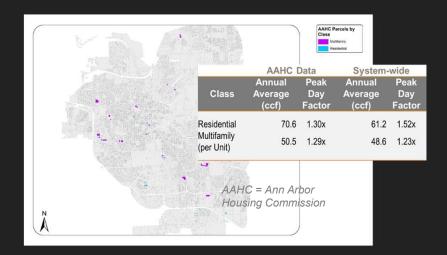
Infrastructure Investment Needs

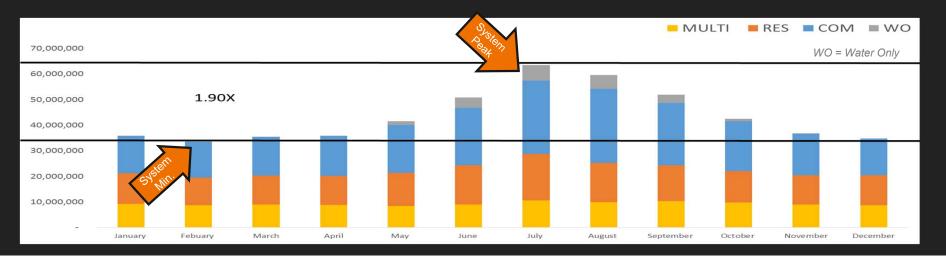


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Utilities have better data and aren't afraid to use it!







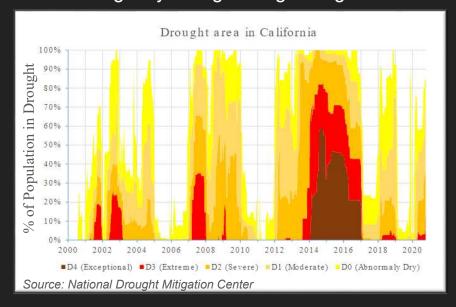




Local Issues & Considerations

Water and Wastewater in San Diego

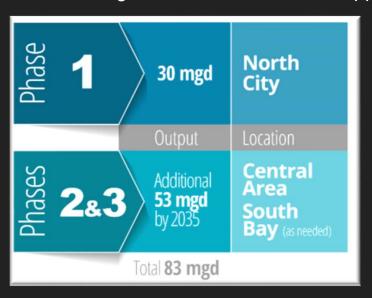
Historical droughts yielding lasting changes in demands



\$17.7 million refund from County Water Authority



Pure Water Program creates new water supply



Changes to Industrial Wastewater Control Program



Prop 218 Overview

Rates Proportional to Cost of Service

Revenue collected from rates cannot exceed the cost to provide service

Rates charged to a given customer must be proportional to the costs imposed on the system

City Council Vote to Issue Public Notification

Successful vote allows notification of proposed fees to be sent to ratepayers

Transmittal of public notification begins the public comment period

Public Comment & Protest Vote

Public has 45 days to submit protest votes, followed by vote count during public hearing

If no majority protest, City Council votes whether to adopt rates



San Diego Rates & Local Comparisons

San Diego Water Rates

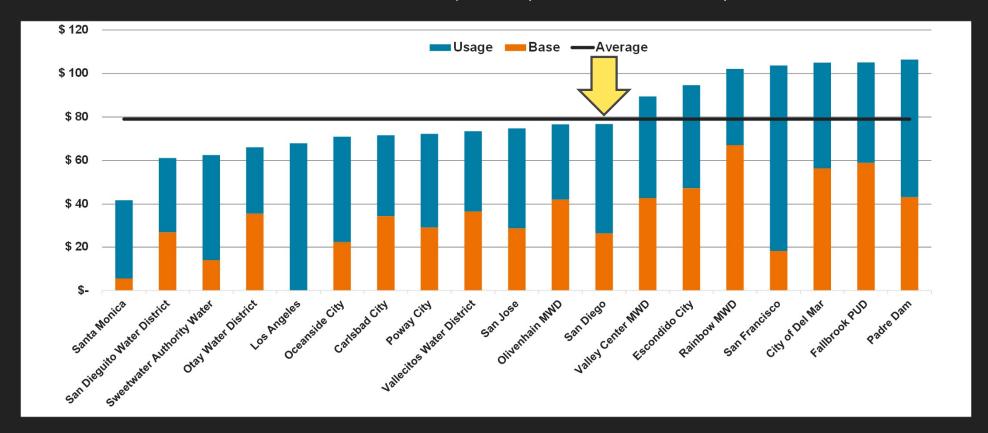
Customer Classes	Tier Widths	\$ Rate / HCF	
Single Family Residential			
Tier 1	0-4 HCF	\$5.257	
Tier 2	5-12 HCF	\$5.888	
Tier 3	13-18 HCF	\$8.412	
Tier 4	19 + HCF	\$11.828	
Multi-Family Residential	All Cons.	\$6.362	
Commercial / Industrial	££	\$6.208	
Irrigation	66	\$7.053	
Temp Construction	u	\$7.173	

Base Fees (Monthly)				
5/8"	\$26.30			
3/4"	\$26.30			
1"	\$34.83			
1.5"	\$54.34			
2"	\$78.72			
3"	\$136.01			
4"	\$217.69			
6"	\$420.05			
8"	\$663.85			
10"	\$949.10			
12"	\$1,760.96			
16"	\$3,031.65			



Local Residential Water Rate Comparison

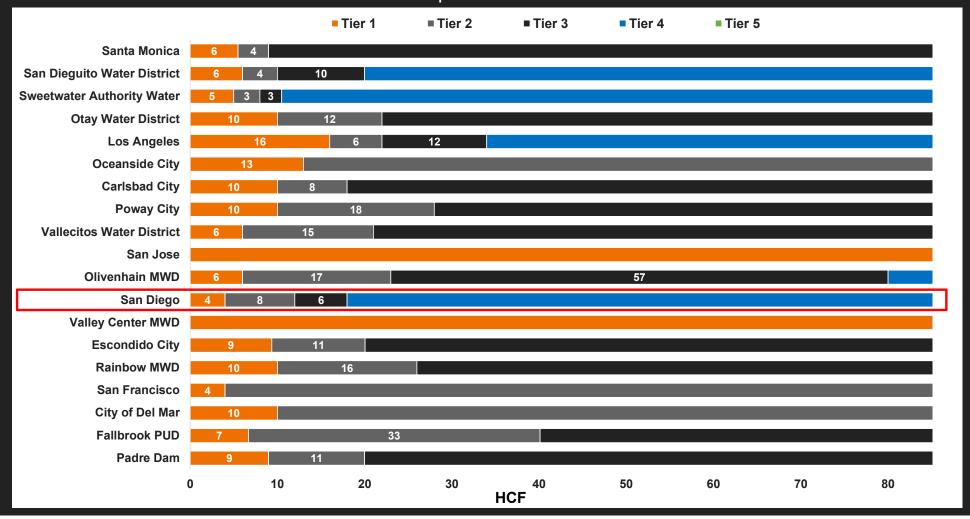
Residential Water Bill Comparison (9 HCF/mo, 3/4" meter)



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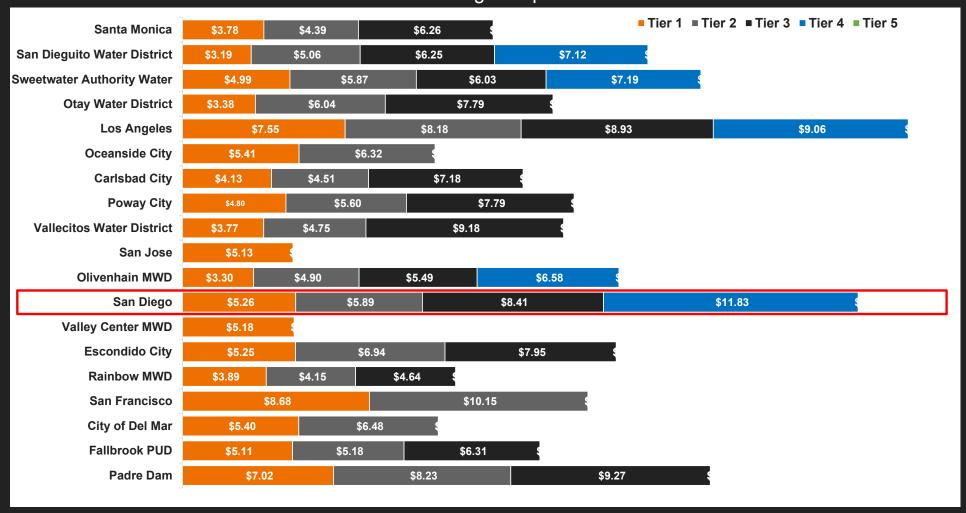
Local Residential Water Usage Rate Structures





Local Residential Water Usage Pricing

Current Water Tier Pricing Comparison - Residential



San Diego Wastewater Rates

Single Family Residential	Rate
Base Sewer Fee	\$30.66 / 2-months
Sewer Commodity Rate	\$3.5983 / HCF

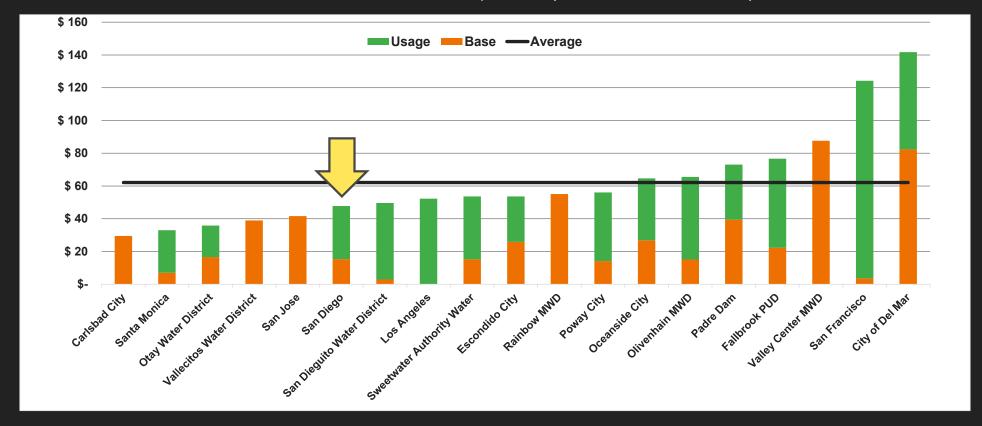
Multi Family Residential	Rate
Base Sewer Fee	\$15.33 / month
Sewer Commodity Rate	\$5.0276 / HCF

Commercial/Industrial	Rate
Base Sewer Fee	\$15.33 / month
Sewer Commodity Rate	\$3.7672 / HCF
TSS	\$0.5517 / pound
COD	\$0.2242 / pound



Local Residential Wastewater Rate Comparison

Residential Wastewater Bill Comparison (9 HCF/mo, 3/4" meter)





Water and Wastewater Rates are Difficult to Compare

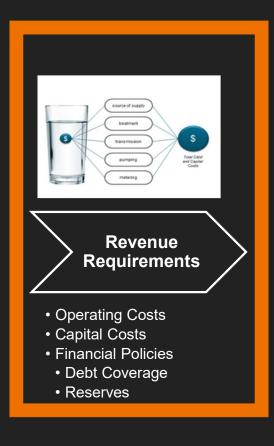
- Rate structure & customer classes
- Treatment processes & technology
- Age of infrastructure
- Source(s) of supply
- Customer characteristics
- Topography
- Service area size & density
- Regulatory drivers
- Financial position
- Timing of rate adjustments
- Use of alternative funding sources
- Etc.





Approach to Evaluating Rates

May not need to perform all steps each year





Cost Allocation

- Evaluate Available Data
- Establish Classes
- Identify Methodology
- Compare Results to Current Revenue



Rate Design

- Evaluate Objectives
- Identify Structures
- Set Parameters
- Customer Impacts

Annually

Every 3 to 5 Years

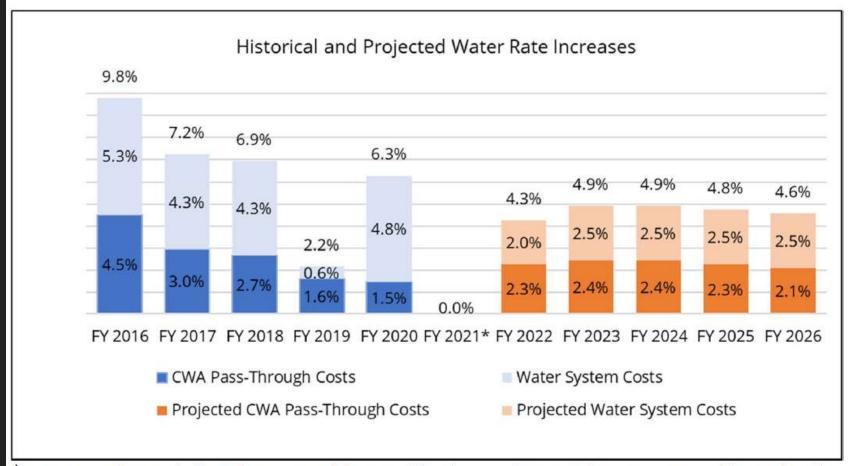


PUD Five-Year Water Outlook forms Revenue Requirements

Table 1.1 - Water System Fiscal Year 2022-2026 Financial Outlook Summary of Operating & Maintenance Key Financial Data (\$ in Millions)						
						Fiscal Year Fiscal Year Fiscal Year Fiscal Year
	2022	2023	2024	2025	2026	
	60 democratica 1000	works seed	Wash (5-2-6.1 a-719	Autoritation Continue	Nation de Contraction de la co	
Water Sales	\$594.8	\$623.2	\$652.3	\$689.0	\$725.6	
Capacity Charges	\$14.4	\$14.4	\$14.4	\$14.4	\$14.4	
Revenue from Use of Property	\$6.1	\$6.1	\$6.1	\$6.1	\$6.1	
Other Revenue	\$24.1	\$20.5	\$21.1	\$22.8	\$23.7	
TOTAL SYSTEM REVENUES	\$639.4	\$664.2	\$693.9	\$732.3	\$769.9	
Salaries & Wages	\$45.9	\$45.9	\$45.9	\$45.9	\$45.9	
Fringe Benefits	\$35.0	\$35.0	\$35.0	\$35.0	\$35.0	
Water Purchases	\$271.6	\$285.5	\$300.1	\$292.9	\$284.5	
Other Non-Personnel Expenditures	\$122.8	\$125.5	\$127.9	\$130.3	\$132.8	
BASELINE OPERATING EXPENDITURES	\$475.3	\$491.9	\$508.8	\$504.1	\$498.2	
CRITICAL OPERATING EXPENDITURES	\$13.7	\$17.9	\$17.5	\$23.7	\$37.7	
CRITICAL OPERATING EXPENDITORES	\$15.7	\$17.9	\$17.5	\$23.7	\$57.7	
Contribution to Capital Improvement Program	\$105.8	\$29.1	\$23.0	\$20.5	\$15.8	
Debt Service	\$112.3	\$112.6	\$118.5	\$145.3	\$149.6	
(Use of) / Contributions to Reserves	(\$14.0)	(\$13.0)	(\$8.8)	(\$8.3)	\$8.2	
NON-OPERATING EXPENDITURES	\$204.0	\$128.7	\$132.7	\$157.5	\$173.6	
TOTAL EXPENDITURES	\$693.0	\$638.6	\$659.0	\$685.4	\$709.5	
Impact to Unallocated Fund Balance	(\$53.6)	\$25.6	\$34.9	\$46.9	\$60.4	
Debt Service Coverage Ratio	1.48 x	1.51 x	1.51 x	1.48 x	1.54 x	



PUD Five-Year Water Outlook Forecasts Rate Increases



^{*}No water rate increase is shown for FY 2021. While rates will not increase in FY 2021, the Department anticipates absorbing an effective 2.5% increase in CWA's water rates.

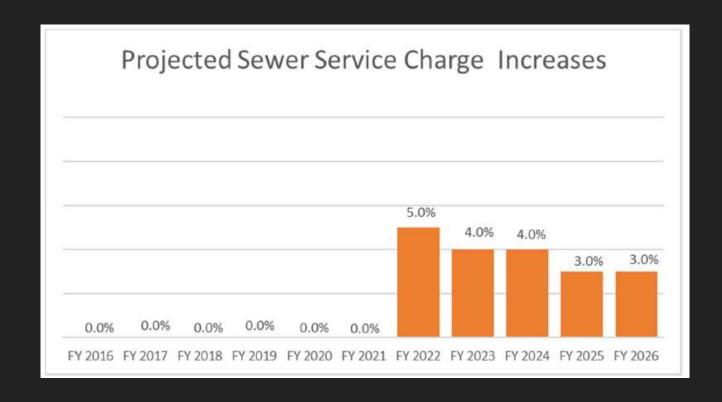
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PUD Five-Year Wastewater Outlook forms Revenue Requirements

Table 1.3 - Wastewater System Fiscal Year 2022-2026 Financial Outlook Summary of Operating & Maintenance Key Financial Data (\$ in Millions)					
	Fiscal Year	Fiscal Year	Fiscal Year	Fiscal Year	Fiscal Year
	2022	2023	2024	2025	2026
Sewer Service Charges	\$302.9	\$315.8	\$329.2	\$339.9	\$351.0
Capacity Charges	\$17.5	\$17.5	\$17.5	\$17.5	\$17.5
Grants	\$0.3	\$0.0	\$0.0	\$0.0	\$0.0
Other Revenue	\$100.1	\$99.9	\$99.8	\$105.1	\$105.3
TOTAL SYSTEM REVENUES	\$420.8	\$433.2	\$446.5	\$462.5	\$473.8
	90000000000000000000000000000000000000		10 A Sec 210	. 2001-27-50	1000000
Salaries & Wages	\$58.1	\$58.1	\$58.1	\$58.1	\$58.1
Fringe Benefits	\$41.7	\$41.7	\$41.7	\$41.7	\$41.7
Other Non-Personnel Expenditures	\$162.7	\$166.0	\$169.1	\$172.3	\$175.6
BASELINE EXPENDITURES	\$262.5	\$265.8	\$268.9	\$272.1	\$275.4
CRITICAL OPERATING EXPENDITURES	\$12.2	\$14.2	\$13.9	\$15.0	\$23.8
Contributions to Capital Improvement Program	\$2.4	\$77.1	\$55.1	\$75.6	\$65.8
Debt Service	\$109.3	\$118.1	\$103.4	\$105.5	\$111.0
(Use of) / Contributions to Reserves	(\$15.6)	(\$21.5)	\$5.5	\$8.3	\$2.3
NON-OPERATING EXPENDITURES	\$96.2	\$173.8	\$164.0	\$189.4	\$179.1
TOTAL EXPENDITURES	\$370.8	\$453.8	\$446.8	\$476.5	\$478.2
Impact to Unallocated Fund Balance	\$49.9	(\$20.6)	(\$0.3)	(\$14.0)	(\$4.4)
Debt Service Coverage Ratio	1.48 x	1.48 x	1.53 x	1.59 x	1.55 x



PUD Five-Year Wastewater Outlook Forecasts Rate Increases

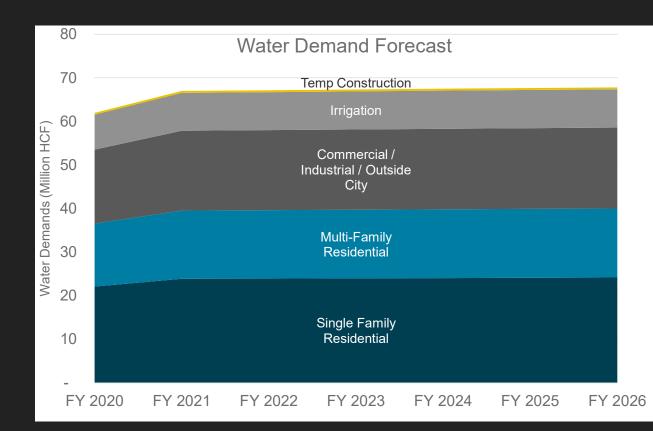




Drivers of Revenue Requirements

Assumptions & Forecasts:

- Customer demands
- Account growth
- Inflation
- Purchased water costs
- Capital costs and project schedules
- Borrowing terms





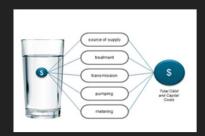
Drivers of Revenue Requirements

Policy Decisions:

- · Reserve requirements
 - · Operating Reserve
 - Capital Reserve
 - Rate Stabilization Reserve
- Key performance indicators and targets
 - · Debt service coverage
 - Days cash on hand
- Capital funding sources
 - Cash
 - · Bonds/Commercial Paper
 - SRF Loans
 - WIFIA Loan



May not need to perform all steps each year



Revenue Requirements

- Operating Costs
- Capital Costs
- Financial Policies
- Debt Coverage
- Reserves



Cost Allocation

- Evaluate Available Data
- Establish Classes
- Identify Methodology
- Compare Results to Current Revenue



Rate Design

- Evaluate Objectives
- Identify Structures
- Set Parameters
- Customer Impacts

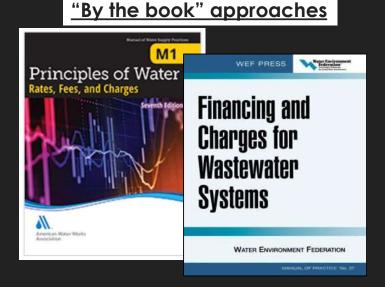
Annually

Every 3 to 5 Years



Objectives of Cost of Service Analysis

- Utilities are made up of different functions that drive costs
- Different customer types use the system functions differently and, as a result, the costs to serve these customer types can and do vary
- Studies use estimates for customer demands and wastewater strengths based on available data that can be updated in the future as information becomes available



Goal: Determine the **cost to serve** each class and collect revenue from each class consistent with the cost of providing service as required by Prop 218.



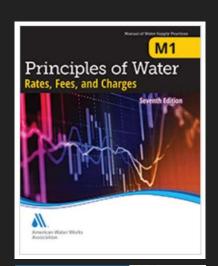
Utilize available industry resources (as guidance)

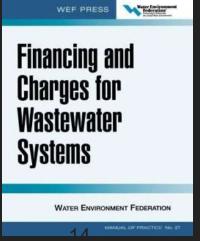
AWWA Manual M-1

- Costs allocated to functions and then to users in proportion to contributions to system components
- Provides detailed guidance for cost-of-service based water rates

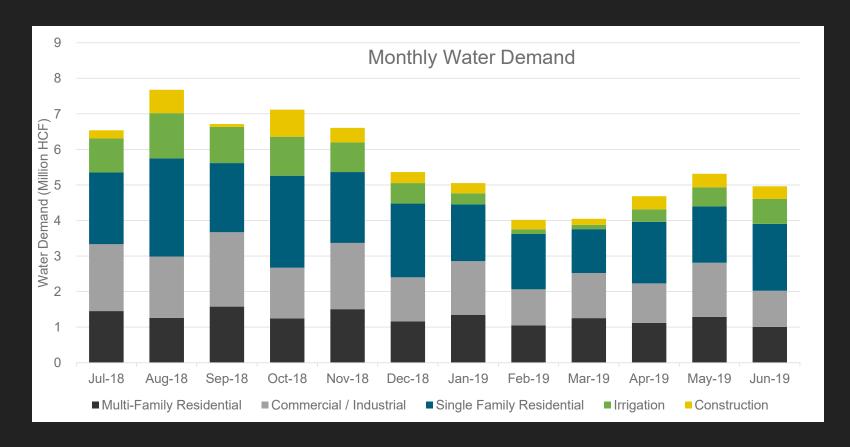
WEF MOP #27

- Similar to Manual M-1 in level of detail and cost allocation process
- Relies upon strength & flow for wastewater rates
- Used by many communities

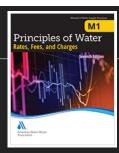




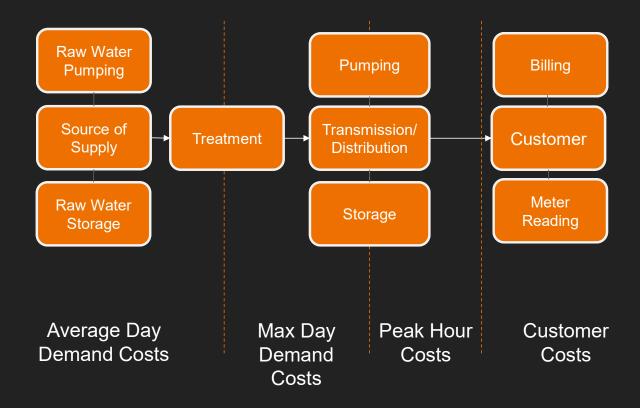
San Diego's Monthly Usage by Class



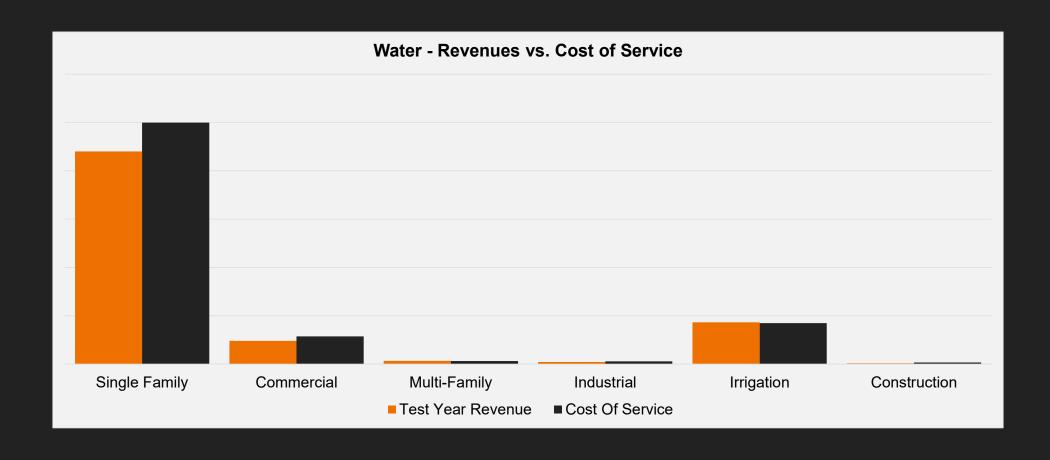
Customers use system differently, impacting the cost to provide service

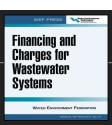


Functionalizing System Costs

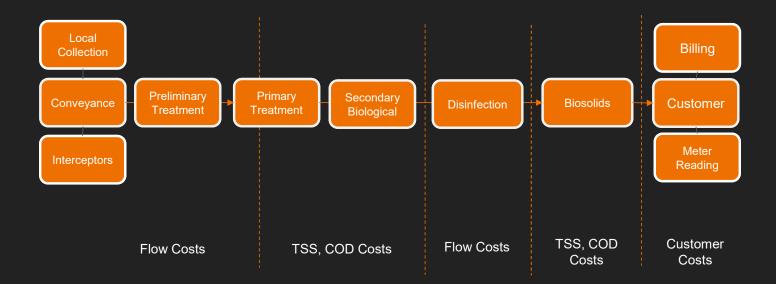


Example: Test Year Revenue vs Cost of Service Analysis



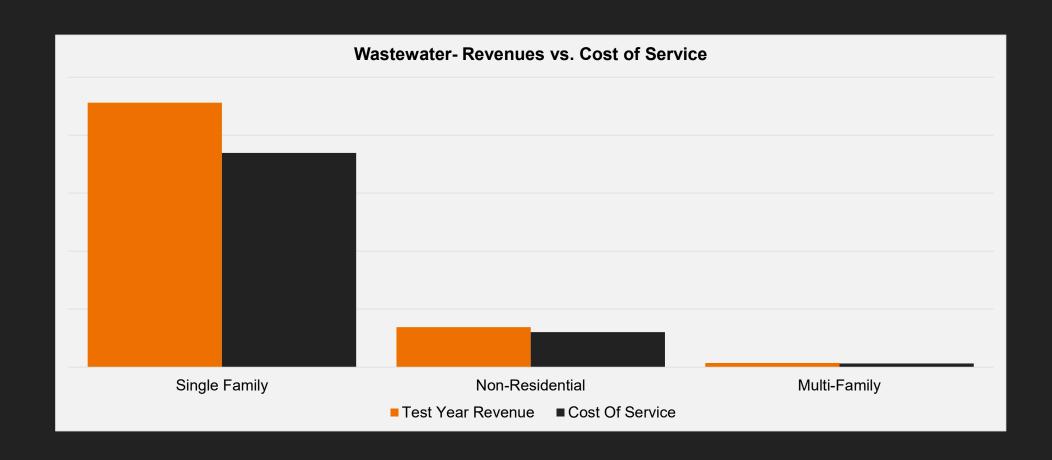


Sewer costs to functions by another book



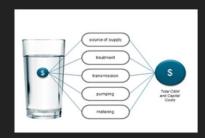
TSS – Total Suspended Solids COD – Chemical Oxygen Demand

Example: Test Year Revenue vs Cost of Service Analysis



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May not need to perform all steps each year



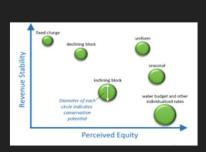
Revenue Requirements

- Operating Costs
- Capital Costs
- Financial Policies
- Debt Coverage
- Reserves



Cost Allocation

- Evaluate Available Data
- Establish Classes
- Identify Methodology
- Compare Results to Current Revenue



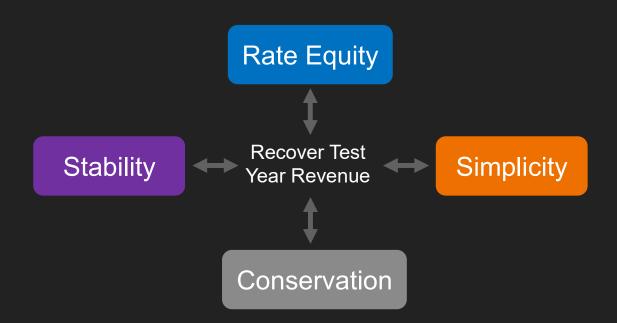
Rate Design

- Evaluate Objectives
- Identify Structures
- Set Parameters
- Customer Impacts

Annually

Every 3 to 5 Years

Objectives of Rate Design



Key Objective: A sustainable rate structure

Goal: Design rates that fairly recover revenue across and within customer classes, meet utility objectives, and comply with requirements of Prop 218



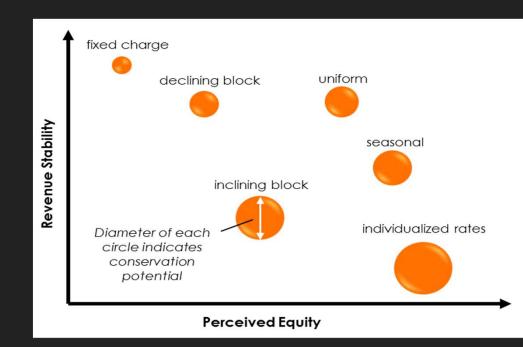
Considerations in Selecting Rate Design

✓ Identify structure that meets your needs:

- Conforms to industry practice
- Meets all legal requirements
- Easy to administer/understand
- Elasticity of demand & weather
- Conservation and affordability
- Stakeholder input/concerns

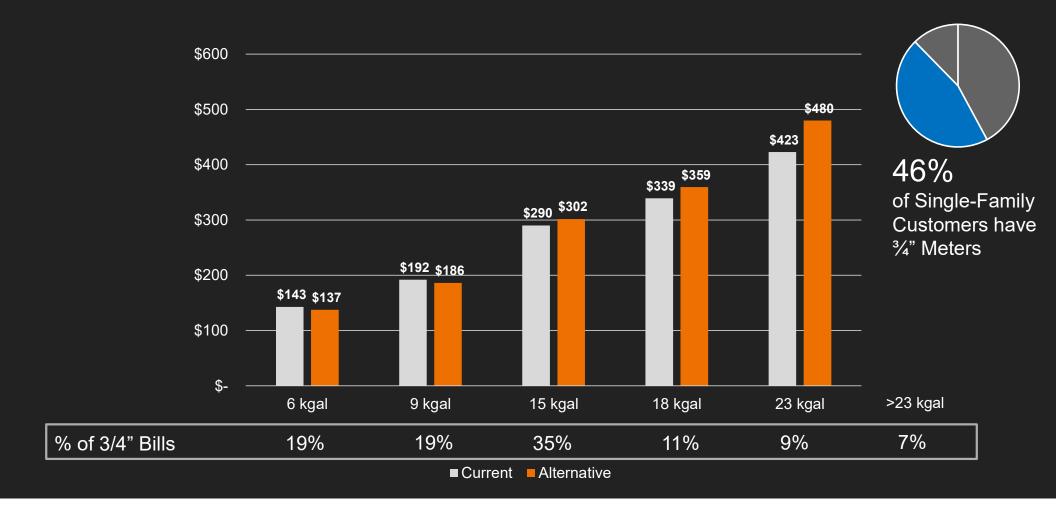
✓ Critical considerations:

- Understanding the drivers and distribution of system costs
- Integrating financial considerations
 - Reserve policies & revenue stability



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Understanding & Communicating Bill Impacts





Next Steps



General Sequence of Events

- 1. PUD releases Cost of Service Study
- 2. Stantec to meet with PUD and Raftelis
- 3. Stantec to meet with IROC to review study and discuss findings & recommendations
- 4. Stantec to present report of findings to Council
- 5. Rate proposals to Council for vote to issue Prop 218 notification
- Public hearing, count protest votes, Council vote for adoption of proposed rates if no majority protest